

ABSTRACT

A diester represented by the formula



wherein A represents a cyclohexane ring, cyclohexene ring or benzene ring, X is H or methyl group, R^X and R^Y are the same or different and each is C3-C18 branched-chain alkyl group, C1-C18 straight-chain alkyl group, C2-C18 straight-chain alkenyl or C3-C10 cycloalkyl, provided that when A is a benzene ring, R^X and R^Y are different from each other and -COOR^X and -COOR^Y are attached to two adjacent carbon atoms of the benzene ring, and having the following properties:

1) a total acid number of 0.05 mgKOH/g or less,

2) a sulfated ash content of 10 ppm or less,

3) a sulfur content of 20 ppm or less,

15 4) a phosphorus content of 20 ppm or less,

5) a peroxide value of 1.0 meq/kg or less,

6) a carbonyl value of 10 or less;

7) a volume resistivity of $1 \times 10^{11} \Omega \cdot \text{cm}$ or more,

8) a hydroxyl value of 3 mgKOH/g or less, and

20 9) a water content of 100 ppm or less,

a process for preparing the same and a refrigerator lubricating oil comprising the diester.